

# RSC Applied Interfaces

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## IN THIS ISSUE

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### Cover

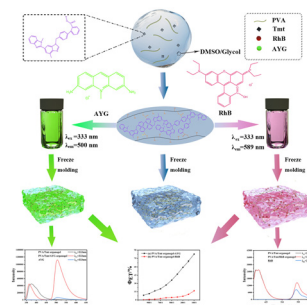
See Liyong Ding,  
Juncheng Hu *et al.*,  
pp. 222–232.  
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2024, 1, 222.

## COMMUNICATION

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### A multifunctional organogel for constructing artificial light harvesting systems with excellent energy transfer efficiency

Xinxian Ma,\* Jiahong Tang, Tianqi Ren, Jiali Zhang,  
Yuehua Liang, Jiuzhi Wei and Enke Feng

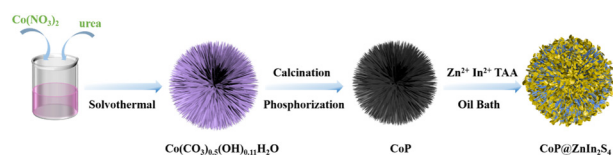


## PAPERS

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### Construction of a hierarchical CoP@ZnIn<sub>2</sub>S<sub>4</sub> heterojunction for photocatalytic hydrogen evolution

Yuqin Liu, Liyong Ding,\* Qian Xu, Yu Ma  
and Juncheng Hu\*



# RSC Applied Polymers

The application of polymers,  
both natural and synthetic

Interdisciplinary and open access

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Fundamental questions  
Elemental answers

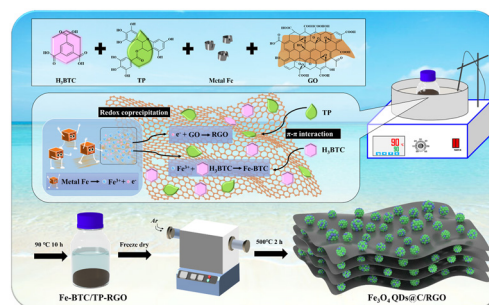
Registered charity number: 207890



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### Synthesis of a MOF-derived magnetite quantum dots on surface modulated reduced graphene oxide composite for high-rate lithium-ion storage

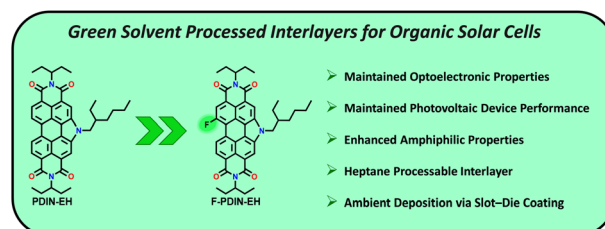
Ruixin Jia, Longbiao Yu, Zhenqi Han, Shuo Liu, Panpan Shang, Siqi Deng, Xuehua Liu and Binghui Xu\*



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### A fluorinated perylene diimide for polar and non-polar green solvent processed organic photovoltaic cathode interlayers

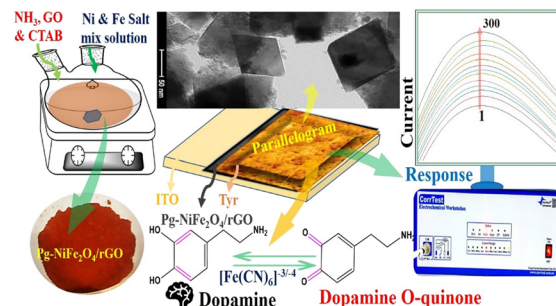
Colton Atkinson, Muhammad Rizwan Niazi and Gregory C. Welch\*



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### Nanoengineered parallelogram-NiFe<sub>2</sub>O<sub>4</sub>/rGO nanocomposite-based biosensing interface for highly efficient electrochemical detection of neurodegenerative disorders via dopamine monitoring

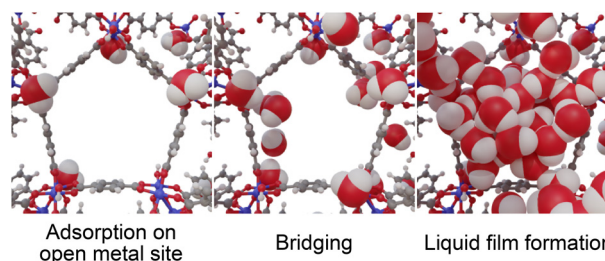
Rahul Verma, Kshitij RB Singh, Ranjana Verma and Jay Singh\*



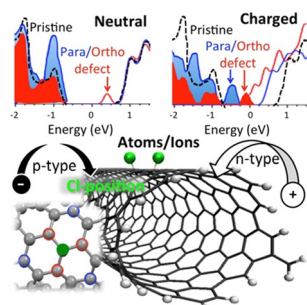
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### Simulation studies of water adsorption on MIL-101(Cr) revealing the role of inhomogeneous potential field composed of open metal sites and organic linkers

Shotaro Hiraide,\* Yu Katayama, Akira Endo, Ryotaro Matsuda, Minoru T. Miyahara and Satoshi Watanabe\*



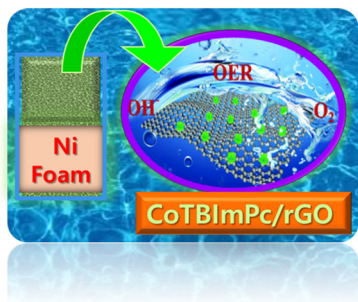
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### Optically active defects in carbon nanotubes via chlorination: computational insights

Braden M. Weight, Brendan J. Gifford, Grace Tiffany, Elva Henderson, Deyan Mihaylov, Dmitri Kilin and Svetlana Kilina\*

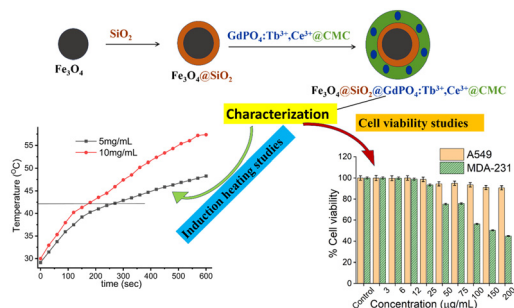
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### Cobalt-benzimidazole swapped metal-organic macrocycle with reduced graphene oxide as a hybrid electrocatalyst for highly efficient oxygen evolution reaction

C. P. Keshavananda Prabhu,\* Kenkera Rayappa Naveen and Jaehyun Hur\*

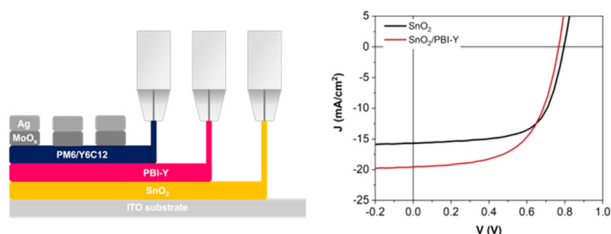
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### Carboxymethylcellulose modified Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub>@GdPO<sub>4</sub>:Tb<sup>3+</sup>,Ce<sup>3+</sup> nanocomposites for combined optical and magnetic fluid hyperthermia in cancer therapy

Dhanapriya Devi Yengkhom, Goutam Singh Ningombam, Rameshwari Heisnam, Nanaocha Sharma, Rajmuhon Singh Nongmaithem and Francis A. S. Chipem\*

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### All slot-die coated organic solar cells using an amine processed cathode interlayer based upon an amino acid functionalised perylene bisimide

Rebecca E. Ginesi, Muhammad R. Niazi, Gregory C. Welch\* and Emily R. Draper\*

